Site Specifications

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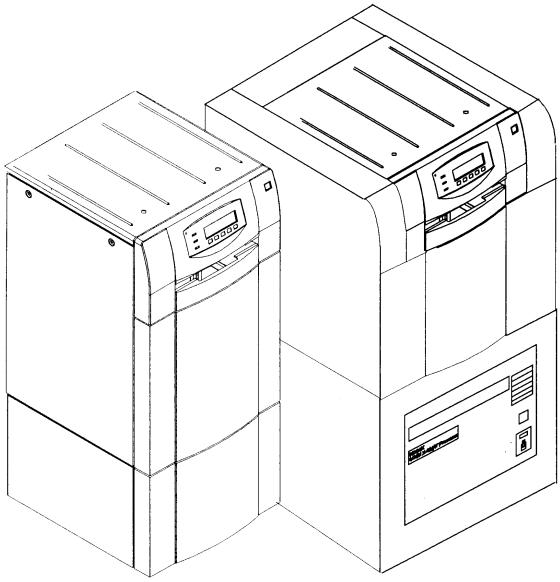
(Edit page 9 - 10/21/2003)



-FOR THE USE OF QUALIFIED SERVICE PERSONNEL ONLY-

KODAK
Miniloader 2000
Miniloader 2000P

HEALTH IMAGING DIVISION

IMPORTANT

Please be aware of the fact that the KODAK Miniloader 2000 and KODAK Miniloader 2000P may only be used for loading and unloading of film cassettes (sizes and types as specified in the OPERATOR GUIDE) and feeding film into the RECEIVING MAGAZINE (Miniloader 2000 only) or into the integrated KODAK Min-R Mammography Processor (Miniloader 2000P only).

The unit must not be used for any other operation!

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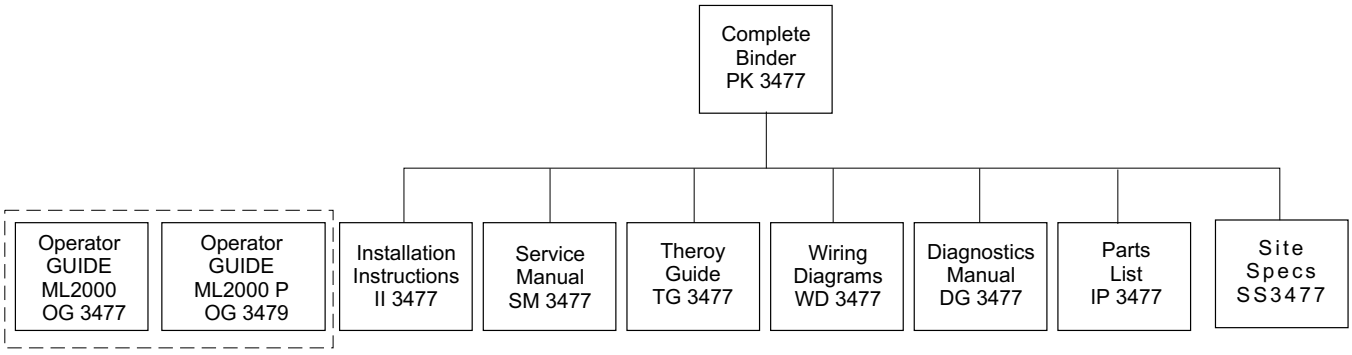
RELATED PUBLICATIONS

NOTE

This SITE SPECIFICATION contains only data for the KODAK Miniloader 2000 and for the KODAK Miniloader 200**0**P. For data of the KODAK **Min-R Mammography** Processor see th**e SITE** SPECIFICATION Part No. **3E0816.**

This publication is one of a series of instruction books that provide technical support information on the KODAK MINILOADER 2000 and KODAK MINILOADER 2000P. It is recommended that these publications be kept in the binder provided. If an individual book is missing or destroyed, order another copy from Kodak PARTS SERVICES using the Publication Part Numbers below.



NOTE

OPERATOR GUIDES ARE NOT PART OF PK 3477. THEY MUST BE ORDERED SEPARATELY

For the sake of simplicity the KODAK MINILOADER 2000 and the KODAK MINILOADER 2000P are called in this publication hereafter ML2000 and ML2000P.

PERSONAL SAFETY

WARNING

To avoid any risk of injury when moving heavy loads follow your local safety regulations. These regulations are different in various countries!

ML2000

The ML2000 should not be rolled down from the TRANSPORT PALETTE by just one person. The centre of gravity is high and the unit may tip over if it is not rolled down the ramp carefully.

ML2000P

Due to the high weight, the ML2000 P must not be installed by just one person. To lift the Min-R Mammography Processor onto the PLINTH at least two people are required. To move the ML2000P from the TRANSPORT BOX onto the STAND at least two people are required.

To prevent SERVICE PROVIDERS (Kodak FEs or dealers) from injury, the equipment should be placed by SPECIALIST TRANSPORT PEOPLE in appropriate position as close to final site as possible. The packing material should be discarded by them.

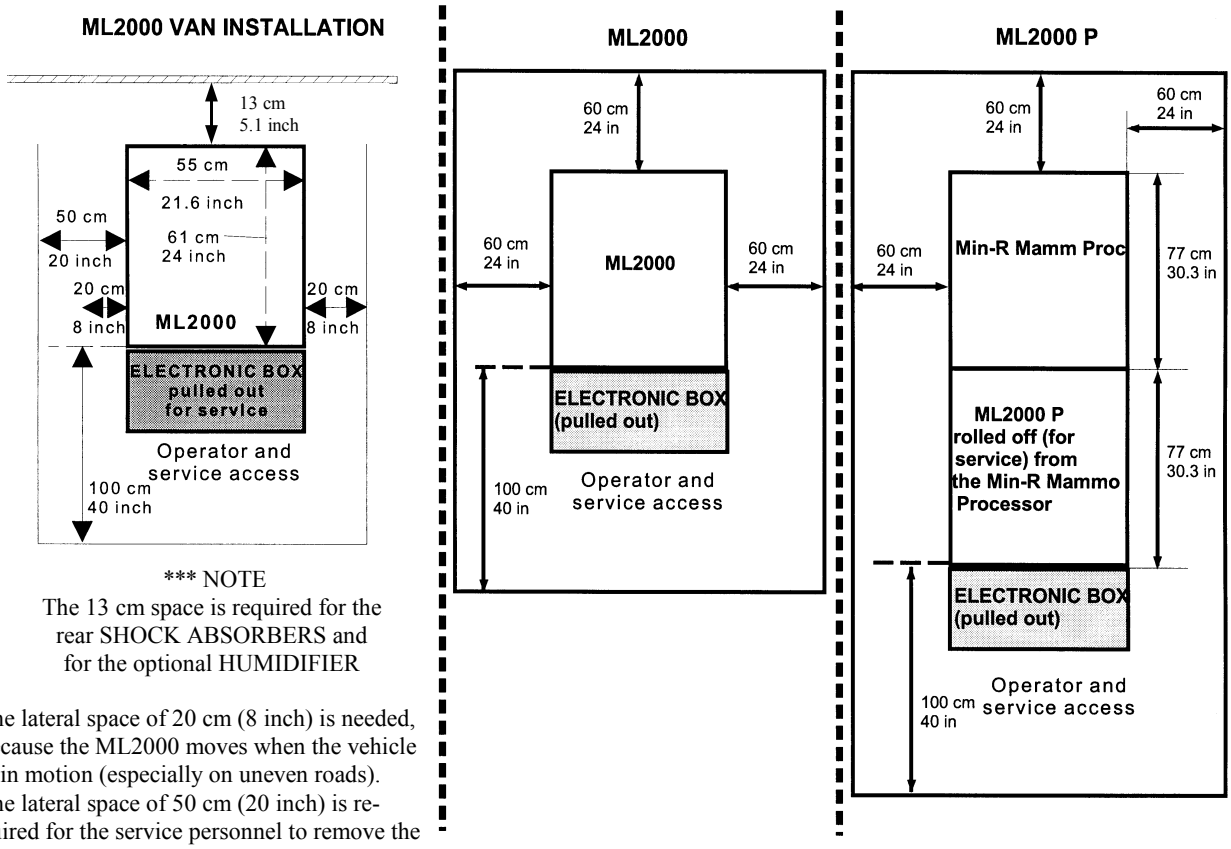
PHYSICAL DIMENSIONS

	ML2000 (Stand Alone)	ML2000 (VAN Installation)	ML2000 P
crated with pallet			
Height	143 cm (56.3 in)	143 cm (56.3 in)	148 cm (58.3 in)
Width	86 cm (34 in)	86 cm (34 in)	89 cm (35 in)
Depth	72 cm (28.3 in)	72 cm (28.3 in)	103.5 cm (40.7 in)
Weight (without Min-R)	260 kg (573 lbs)	290 kg (639 lbs)	250 kg (551 lbs)
uncrated			
Height	125 cm (49.2 in)	125 cm (49.2 in)	137.2 cm (52.8 in)
Width	55 cm (21.6 in)	55 cm (21.6 in)	72.3 cm (28.5 in)
Depth	61 cm (24 in)	61 cm (24 in)	77.3 cm (30.4 in)
Weight (without Min-R)	220 kg (485 lbs)	250 kg (551 lbs)	180 kg (397 lbs)

OPERATOR and SERVICE ACCESS

For details see the drawing on the next page.

	Minimum Clearance ML2000 / ML2000P	Minimum Clearance ML2000 VAN-Installation
Front	100 cm (40 in)	100 cm (40 in)
Left Side	60 cm (24 in)	50 cm (20 in)
Right Side	60 cm (24 in)	20 cm (8 in)
Rear Side	60 cm (24 in)	27 cm (10.6 in)
Top	80 cm (31 in)	80 cm (31 in)



*** NOTE
The 13 cm space is required for the rear SHOCK ABSORBERS and for the optional HUMIDIFIER

The lateral space of 20 cm (8 inch) is needed, because the ML2000 moves when the vehicle is in motion (especially on uneven roads). The lateral space of 50 cm (20 inch) is required for the service personnel to remove the rear SHOCK ABSORBERS when service is necessary. Preferably the 50 cm space should be on the left side.

ELECTRICAL REQUIREMENTS for ML2000 and ML2000P (Excluding built in Min-R mammography Processor)

An earth/ground wire must be provided. Follow local electrical codes.

SYSTEM MAINS V	FREQUENCY HZ	PHASES	CURRENT A	MAINS CIRCUIT BREAKER OTHER COUNTRIES	MAINS CIRCUIT BREAKER US and CANADA
100 V	50 / 60	1	4.4	16	20
115 V	60	1	4.4		20
120 V	60	1	4.4		20
200 V	50 / 60	1	2.2	16	20
220 V	50 / 60	1	2.2	16	20
230 V	50 / 60	1	2.2	16	20
240 V	50 / 60	1	2.2	16	20

ELECTRICAL REQUIREMENTS for the built in Min-R Mammography Processor)

An earth/ground wire must be provided. Follow local electrical codes.

SYSTEM MAINS V	FREQUENCY HZ	PHASES	CURRENT A	MAINS CIRCUIT BREAKER OTHER COUNTRIES	MAINS CIRCUIT BREAKER US and CANADA
200 V	50 / 60	1	14	16	20
208 V	60	3	13		20
230 V	50	1	14	16	
240 V	60	1	14		20

WARNING

According too European safety regulations for medical devices, the ML2000P must be properly connected to the EQUIPOTENTIAL EQUALISATION DEVICE (E^2D) if the unit is operated within a distance of 1.5 m from a patient. The (E^2D) and the CONNECTING CABLE must be provided by the customer. The purpose of the EQUIPOTENTIAL EQUALISATION DEVICE is to ensure that all medical devices are connected to the same ground potential.

HEALTH AND SAFETY CONSIDERATIONS

The ML2000 / ML2000P will be designed to meet the following standards:

SAFETY REQUIREMENTS

Europe:

For Medical Device Directive 93/42/EEC
-EN 60601-1 Medical Electrical Equipment

United States:

UL 122 Safety of Photographic Equipment

Canada:

CSA 22.2 No. 950 Safety of Information Technology Equipment

Japan:

Japanese Industrial Standards

WATER REQUIREMENTS

Germany:

DVGW – DIN 1988

United Kingdom:

British Water Bylaw (for the Humidifier)

KODAK STANDARDS REQUIREMENTS

United States:

Approved Technical Practices
KAD Test Specifications TS212 (ATP593), TS 215 (ATP588), TS217 (ATP590)

Germany:

Kodak Normen (KN's): 1.50.04; 2.90.10; 2.90.64; 2.90.80

QUALITY SYSTEMS:

according to:

DIN EN ISO 9001
EN 46001
FDA GMP (Good Manufacturing Practices)

ELECTROMAGNETIC COMPATIBILITY REQUIREMENTS

Europe:

For Medical Device Directive 93/42/EEC
Emissions:
EN 60601-1-2
EN 55011 Group 1 Class B

Immunity:

EN 60601-1-2

United States:

Emissions:

FCC CFR 47 Part 18

Canada:

Emissions:

ICES Standards 003

Japan:
Emissions:
VCC1 Standard 11/1987 Class 2

Australia / New Zealand:
Emissions:
AN / NZS 2064

APPROVALS

The ML2000 / ML2000P will bear the following marks:

UL	Underwriter Laboratories
cUL	Canadian Standards Approved from Underwriters Laboratories.
TÜV–GM	TÜV Rheinland
CE Mark for :	Medical Device Directive 93/42/EEC

PROTECTIVE SYSTEM

(Protection against accidental contacts and protection against water)
DIN 40050-IP 22.

SITE REQUIREMENTS

TEMPERATURE:

15- 30' C (59- - 86' F)

RELATIVE HUMIDITY

30% 60% Rh.

In the range below 30% RH there is a risk of:

1/.static discharge, creating artefacts on the film
2/.extensive curl up to 30 mm

Both problems are minimised by the use of a Humidifier.
Please note that in the range above 60% RH the films may stick together due to a tacky emulsion!

EXTERNAL MAGNETIC FIELD

For Safety reasons the ML2000 / ML2000P must not be installed in the close vicinity of a unit producing a strong magnetic field. This magnetic field could defeat the INTERLOCK SWITCHES (REED CONTACTS) of the ML2000 / ML2000P.

HEAT DISSIPATION

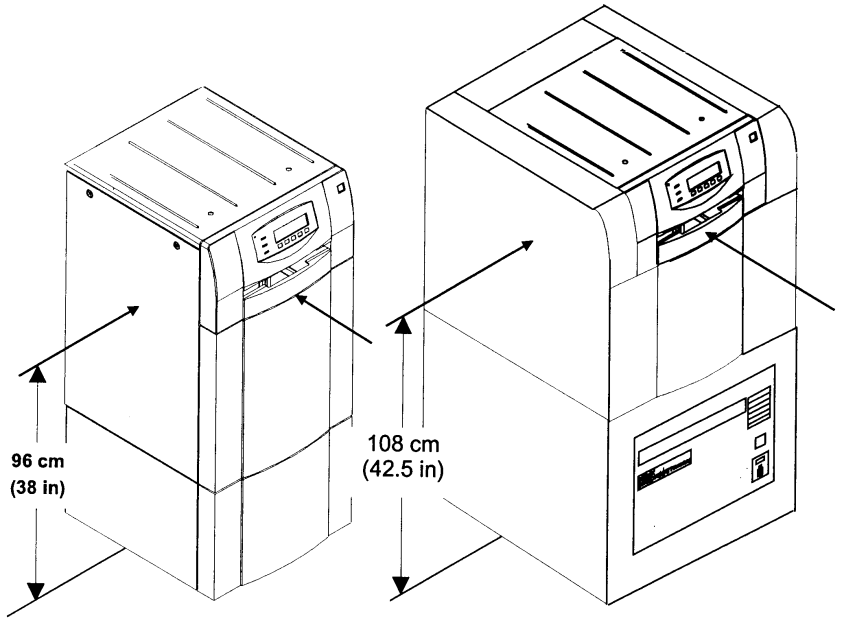
ML2000:	Approximately 1080 kJ/hour (1025 BTU/h).
ML2000P with built in Min-R Mammography Processor:	Approximately 4457 kJ/hour (4225 BTU/h).

(Edit to heat dissipation 10/21/2003)

CENTRE OF GRAVITY

The centre of gravity for the ML2000 and ML2000P is very high. Take care when transporting the unit to avoid tipping the unit over.

CENTER OF GRAVITY



ML2000 ML2000P

INSTALLATION

The site must be properly prepared before the ML2000 / ML2000P is installed.

A Field Engineer (Qualified Service Personnel) will visit the premises during Kodak's normal working hours to inspect the site where the ML2000 / ML2000P is to be installed. At that time it will be determined whether the site has been prepared properly for the equipment installation. The customer will be notified of any areas that need further preparation.

If local labour regulations permit, installation of the ML2000 / ML2000P will be done by a Field Engineer (Qualified Service Personnel). At installations where this is not possible, installation charges are the responsibility of the customer. A Field Engineer will be on site to provide assistance, if required.

INSTALLATION OF THE ML2000 ON A:

MOBILE UNIT

WARNING

It is most important that the MINILOADER 2000 when installed on a Mobile Unit, is installed according to the KODAK Miniloader 2000 Van Kit, Model 2 Cat. Number 7199920, instructions II 3477-E and that all components provided in the Kit are used as directed in II 3477-E.

Failure to fully comply with the instructions II 3477-E will put extra strain on the mountings while the Mobile Unit is in motion and may result in the Miniloader 2000 becoming loose or damaging the mountings, this in a worst case may result in the 290 KG Miniloader coming free and damaging the Mobile Unit and the Miniloader 2000 or putting operating staff at personal risk of injury.

In cases where incorrect installation was deemed to be a contributing factor to any resultant injury, the service provider may be deemed liable to prosecution.

Updated by Professional Services Organisation August 2000, Original Document by: KodakAG Stuttgart

CUSTOMER EQUIPMENT
SERVICES

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